APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/701,196	11/04/2003	Sumita Rao	KWC-0011	5054

32968	7590	06/06/2006	

KYOCERA WIRELESS CORP.
P.O. BOX 928289
SAN DIEGO, CA 92192-8289

EXAMINER
NGUYEN, PHU K

ART UNIT	PAPER NUMBER
2628	

DATE MAILED: 06/06/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

	Application No.	Applicant(s)
Office Action Summary	10/701,196	RAO, SUMITA
	Examiner	Art Unit	
	Phu K. Nguyen	2628	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *15 March 2006*.

2a)☒ This action is **FINAL**.   2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-36* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-36* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

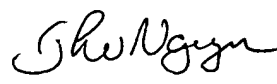8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

**PHU K. NGUYEN
PRIMARY EXAMINER
GROUP 2300**

Attachment(s)

1)☐ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.

5)☐ Notice of Informal Patent Application (PTO-152)

6)☐ Other: _____.

DETAILED ACTION

1.   Claims 1-36 are presented for examination.

2.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for
all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set
> forth in section 102 of this title, if the differences between the subject matter sought to be patented and
> the prior art are such that the subject matter as a whole would have been obvious at the time the
> invention was made to a person having ordinary skill in the art to which said subject matter pertains.
> Patentability shall not be negatived by the manner in which the invention was made.

3.   Claims 1-21, 23-34 are rejected under 35 U.S.C. 103(a) as being
unpatentable over Li in view of Jia et al.

With respect to claim 1, li teaches the claimed providing a frame rule, the frame rule for

instructing an image processor to generate at least a portion of a frame, at [0037] with

the teaching of "The border area 216 of FIG. 2B includes four corner pieces 220 that

are comprised of the same caricature of a bird. The corner pieces 220 are placed at

each corner of the image 214 by the processor 102-2 executing program instructions

that identify the location and orientation for each copied graphic pieces 218 & 220

according to border configuration file"; li teaches the claimed retrieving a first frame

asset, the first frame asset being indicative of a first segment of a frame at [0011] with

the teaching of "The corner asset is processed into corner blocks that are placed at the

corner of the image"; li teaches the claimed generating a plurality of first frame blocks

using the first frame asset, the first frame blocks being generated according to the

frame rule at [0037] with the teaching of "The border area 216 of FIG. 2B includes four

corner pieces 220 that are comprised of the same caricature of a bird. The corner

pieces 220 are placed at each corner of the image 214 by the processor 102-2

executing program instructions that identify the location and orientation for each copied

graphic pieces 218 & 220 according to border configuration file"; li teaches the claimed

placing the first frame blocks according to the frame rule, the first frame blocks

positioned to form at least a portion of the frame for the image at [0037] with the

teaching of "The border area 216 of FIG. 2B includes four corner pieces 220 that are

comprised of the same caricature of a bird. The corner pieces 220 are placed at each

corner of the image 214 by the processor 102-2 executing program instructions that

identify the location and orientation for each copied graphic pieces 218 & 220

according to border configuration file".

While li teaches most features claimed, it is noted that the claimed the frame

having a scalable dimension independent from the size and resolution of the image is

not explicitly taught. However, Jia et al. teaches this at the Abstract with "The user has

the ability to modify the rules that determine the framing scheme parameters so as to

adjust the framed image if desired", and because figure 1 shows the various image

sources (12a-12e), each with it's own resolution, being mapped by the image

processing apparatus (10) to the various imaging devices (14a-14e), each with their

own resolution, and at [0018] with "In operation, the image analyzer 20 processes a

data set representing an unframed digital image 22 so as to determine one or more

frame attributes of a frame 26 that is visually attractive when combined with the

unframed digital image 22. The frame attributes are provided to the framed image

generator 40, which in turn processes the data set for the unframed digital image 22 in

order to generate a new data set for the framed digital image 24. The new data set for

the framed digital image 24 includes data representing the unframed digital image 22

surrounded by a frame 26 having the frame attributes", and at [0019] with "the digital

data representing an image 22 typically is stored as a set of individual image pixels.

These pixels may be logically mapped to in rows (such as exemplary rows 7) and

columns (such as exemplary columns 8) of a two-dimensional image space 6 to form

the image 22. Each image pixel represents the color and intensity of a small

rectangular area 19 of the image 22. Typically each row and column has a pixel

resolution of at least 75 to 600 or more pixels per inch. Image pixel data may be stored

in a variety of different formats. A preferred format is RGB. A pixel in RGB format

contains three parameters: one each for red, green, and blue colored information. The

value of each of these parameters indicates the intensity of the corresponding color at

that pixel. The various possible combinations of the red, green, and blue parameters

allow different pixels to represent a wide range of colors and intensities. When the color

and intensity of each pixel is displayed or printed in this two-dimensional image space,

the image 22 is depicted", and at [0020] with "Alternatively, and with reference to FIG. 4,

the image data pixels may also be logically mapped to a number of alternative three-

dimensional color spaces known to those skilled in the art, such as HSL color space 50.

HSL color space 8 may be represented as a cone having a central axis 52 representing

lightness (L), a radial axis 54 extending out from the central axis 52 representing

saturation (S), and an angular component 56 representing the hue (H). The particular

shade of color of a pixel, such as pixels 51, is represented as a position on a plane of

the cone orthogonal to the lightness axis 52, while the lightness or darkness of a pixel is

represented by the location on the lightness axis 52 of the plane", "arranging the pixels

of the unframed image 22 in a three-dimensional color space is beneficial for

automatically generating a visually pleasing frame for the image 22. While the HSL

color space is depicted here for simplicity of understanding, the HSL color space is

logarithmic with respect to the characteristics of human visual perception, and therefore

it should be understood that the preferred color space for the present invention is CIE

L*a*b* space which has a linear relationship to human visual perception", and at [0035]

with "Some embodiments also allow the user to specify the number and width of the

borders, the desired size of the framed image 26, and/or a scaled size for the

representation 22' of the unframed image. After the mapping relationship has been

modified, the determining 106 of frame attributes is performed again", "the user has the

ability to modify or override the attributes of the frame 26", and at [0036] with "Returning

now to the image processing apparatus 10 in order to consider the image analyzer 20 in

further detail, and with reference to FIGS. 1 and 2, the data set for the unframed image

may be supplied from image sources which include but are not limited to a mass

storage device 12a, a network source 12b, a digital camera 12c, an optical scanner 12d,

or the optical scanner module of a multifunction printer 12e. The image analyzer 20

further includes a component identifier 28 which processes the data set as has been

previously described so as to identify one or more individual image components. The

analyzer 20 also includes a component characterizer 30 which receives the image

components from the component identifier 28 and determines at least one component

characteristic for certain ones of the individual image components; an image

characterizer 34 which is communicatively coupled to the component characterizer 30

for determining at least one image characteristic from the at least one component

characteristic as has been previously described; and an image categorizer 36 which is

communicatively coupled to the image characterizer 34 for automatically defining the at

least one frame attribute from the at least one image characteristic, as has also been

previously described in detail. The image processing apparatus 10 also preferably

includes a memory 44 accessible by the image categorizer 36, the image categorizer 36

automatically defining the at least one frame attribute in accordance with at least one

framing scheme parameter stored in the memory 44. The preferred embodiment of the

memory is preferably writeable, and the apparatus 10 preferably also has a user

interface 38 communicatively coupled to the memory 44 for modifying the at least one

framing scheme parameter", and at [0038] with "The apparatus 10 can send the data

set it generates for the framed image to imaging devices that include but are not limited

to a printer 14a, a display or monitor 14b, a network destination 14c, a mass storage

device 14d, or a multifunction printer 14e".

It would have been obvious to one of ordinary skill in the art at the time of the

instant invention to use the features of li with the teachings of Jia et al. because

automatically generating a visually attractive frame around a digital image by analyzing

the contents of the digital image reduces confusion and time expended by a person to manually mat and frame the digital image.

Claim 2 further requires retrieving a second frame asset, the second frame asset being indicative of a second segment of a frame. Ii teaches this at [0082] with "in FIG. 2B, four graphic pieces 218 and two corner graphic pieces 220 are uniformly spaced across the width of the input image 214", and at figure 2B item 218; Ii teaches the claimed generating a plurality of second frame blocks using the second frame asset, the second frame blocks being generated according to the frame rule at [0037] with the teaching of "The border area 216 of FIG. 2B includes four corner pieces 220 that are comprised of the same caricature of a bird. The corner pieces 220 are placed at each corner of the image 214 by the processor 102-2 executing program instructions that identify the location and orientation for each copied graphic pieces 218 & 220 according to border configuration file";Ii teaches the claimed placing the second frame blocks according to the frame rule, the first frame blocks and the second frame blocks positioned to form the frame for the image at [0037] with the teaching of "The border area 216 of FIG. 2B includes four corner pieces 220 that are comprised of the same caricature of a bird. The corner pieces 220 are placed at each corner of the image 214 by the processor 102-2 executing program instructions that identify the location and orientation for each copied graphic pieces 218 & 220 according to border configuration file" and at [0082] with "in FIG. 2B, four graphic pieces 218 and two corner graphic pieces 220 are uniformly spaced across the width of the input image 214".

Claim 3 further requires accepting user input from a control. Jia et al. teaches

this at [0036] with "the apparatus 10 preferably also has a user interface 38

communicatively coupled to the memory 44 for modifying the at least one framing

scheme parameter"; Jia et al. teaches the claimed adjusting at least one of the first

frame blocks responsive to the user input at [0035] with the teaching of "Some

embodiments also allow the user to specify the number and width of the borders, the

desired size of the framed image 26".

Claim 4 further requires the user input specifies a width. Jia et al. teaches this at

[0035] with "Some embodiments also allow the user to specify the number and width of

the borders, the desired size of the framed image 26".

Claim 5 further requires the frame extends continuously around the image. Ii

teaches this at Figure 2B. Further, Jia et al. also teaches this at [0032] with "the pixels

on the edges of the pattern are chosen so as to form visually matching interfaces when

the pattern is replicated to form the border".

Claim 6 further requires at least some of the first frame blocks are positioned on

the image. Ii teaches this at [0032] with "In FIG. 2A, a graphic piece 212 is tiled into the

border area 204 by blending pixels of the graphic piece 212 into the pixels of the input

image 202".

Claim 7 further requires at least some of the first frame blocks are positioned

adjacent to the image. Ii teaches this at [0079] with "A border mask can be bigger than

input image, when a border is to be added around or outside an input image. In such a

case, the configuration file needs to specify the size of the input image in pixels and

where the input image and border are located with respect to each other. When a

border covers space outside an input image, it is preferred that the border be made up

of solid color pixels".

Claim 8 further requires the first frame asset is a corner asset, and generating

the first frame blocks includes rotating the corner asset. Ii teaches this at [0037] with

"The border area 216 of FIG. 2B includes four corner pieces 220 that are comprised of

the same caricature of a bird. The corner pieces 220 are placed at each corner of the

image 214 by the processor 102-2 executing program instructions that identify the

location and orientation for each copied graphic pieces 218 & 220 according to border

configuration file".

Claim 9 further requires the first frame blocks generated using the corner asset

are positioned at at least one the corner[s] of the image. Ii teaches this at [0037] with

"The border area 216 of FIG. 2B includes four corner pieces 220 that are comprised of

the same caricature of a bird. The corner pieces 220 are placed at each corner of the

image 214 by the processor 102-2 executing program instructions that identify the

location and orientation for each copied graphic pieces 218 & 220 according to border

configuration file".

Claim 10 further requires the first frame asset is a tile, and the first frame blocks

generated using the tile are positioned to form a portion of the frame along an edge of

the image. Ii teaches this at [0037] with "The border area 216 of FIG. 2B includes four

corner pieces 220 that are comprised of the same caricature of a bird. The corner

pieces 220 are placed at each corner of the image 214 by the processor 102-2

executing program instructions that identify the location and orientation for each copied

graphic pieces 218 & 220 according to border configuration file", and at [0027] with

"Instead of storing an entire border, a border can be added to an input image 202 by

"tiling" the border area 204 of the image using one or more graphic "pieces," which are

stored in memory as graphic piece image files (also referred to as graphic image files).

By tiling the periphery of an input image 202 with copies of one or more graphic pieces,

a border can be added to an input image using only one or more relatively small graphic

image files. Memory storage requirements are thereby reduced from what would be

required to store an entire border. Memory storage requirements can be reduced even

further if the graphic image file is represented by a paletted file".

Claim 11 further requires the first frame asset is a graphics file. Ii teaches this at

[0018] with "small graphics files, from which a graphic image border is "constructed,"

are stored in memory 102-4 and 102-6 and repeatedly copied around the image

periphery".

       Claim 12 further requires the first frame asset is a formula. Ii teaches this at

[0082] with "In FIG. 3C, the step of creating a mask file in step 26 is comprised of steps

that include calculating the locations for each replicated graphic pieces according to

configuration information contained in the border file". Further, Jia et al. also teaches

this at [0027] with "Considering now in further detail the determining 106 of frame

attributes of a visually attractive frame 26 for the image 22, and with reference to Table

I and FIGS. 2, 4, and 7, the frame attributes that will be determined preferentially

include the number of individual borders in the frame 26 and, for each border, the

border width, border color, border texture pattern, and border shading pattern. The

determining 106 of frame attributes begins at 132 by examining the overall image

characteristics to determine whether the image characteristics match one of the

predefined image categories. If such a matching image category is found ("Yes"

branch of 134), then at 136 the framing scheme associated with that image category is

selected for use. If no matching image category is found ("No" branch of 134), then at

138 the framing scheme for the default image category is selected for use", and at

[0028] with "At 140, the number of borders incorporated in the frame 26, and the width

of each border, are determined. The number and width of the borders are preferably

determined based on the dimensions of the unframed image representation 22' ($x.sub.i$

and $y.sub.i$) and the framed image 24 ($x.sub.f$ and $y.sub.f$)", and at [0029] with "If the

dimensions of the unframed representation 22' are more than about 60% of the

dimensions of the framed image 24, then preferably the frame 26 will include only a

single border region. Conversely, if the dimensions of the unframed representation 22'

are less than about 30% of the dimensions of the framed image 24, then two or more

border regions will preferably be used. As indicated in Table I, the border regions are

2-dimensional by default for all image categories".

With respect to claim 13, li teaches the claimed retrieving a corner asset, the

corner asset being indicative of a corner segment of a frame, at [0037] with the teaching

of "The border area 216 of FIG. 2B includes four corner pieces 220 that are comprised

of the same caricature of a bird. The corner pieces 220 are placed at each corner of the

image 214 by the processor 102-2 executing program instructions that identify the

location and orientation for each copied graphic pieces 218 & 220 according to border

configuration file"; li teaches the claimed generating four corner blocks using the corner

asset, the corner blocks being generated by rotating the corner asset 0 degrees, 90

degrees, 180 degrees, and 270 degrees, respectively at [0037] with the teaching of

"The border area 216 of FIG. 2B includes four corner pieces 220 that are comprised of

the same caricature of a bird. The corner pieces 220 are placed at each corner of the

image 214 by the processor 102-2 executing program instructions that identify the

location and orientation for each copied graphic pieces 218 & 220 according to border

configuration file"; li teaches the claimed placing one of the corner blocks at each

corner of the image at [0037] with the teaching of "The border area 216 of FIG. 2B

includes four corner pieces 220 that are comprised of the same caricature of a bird.

The corner pieces 220 are placed at each corner of the image 214 by the processor

102-2 executing program instructions that identify the location and orientation for each

copied graphic pieces 218 & 220 according to border configuration file".

While li teaches most features claimed, it is noted that the claimed the frame

having a scalable dimension, the scalable dimension independent from the size and

resolution of the image is not explicitly taught. However, Jia et al. teaches this at the

abstract with "The user has the ability to modify the rules that determine the framing

scheme parameters so as to adjust the framed image if desired" and because figure 1

shows the various image sources (12a-12e), each with it's own resolution, being

mapped by the image processing apparatus (10) to the various imaging devices (14a-

14e), each with their own resolution, and at [0018] with "In operation, the image

analyzer 20 processes a data set representing an unframed digital image 22 so as to

determine one or more frame attributes of a frame 26 that is visually attractive when

combined with the unframed digital image 22. The frame attributes are provided to the

framed image generator 40, which in turn processes the data set for the unframed

digital image 22 in order to generate a new data set for the framed digital image 24.

The new data set for the framed digital image 24 includes data representing the

unframed digital image 22 surrounded by a frame 26 having the frame attributes", and

at [0019] with "the digital data representing an image 22 typically is stored as a set of

individual image pixels. These pixels may be logically mapped to in rows (such as

exemplary rows 7) and columns (such as exemplary columns 8) of a two-dimensional

image space 6 to form the image 22. Each image pixel represents the color and

intensity of a small rectangular area 19 of the image 22. Typically each row and column

has a pixel resolution of at least 75 to 600 or more pixels per inch. Image pixel data

may be stored in a variety of different formats. A preferred format is RGB. A pixel in

RGB format contains three parameters: one each for red, green, and blue colored

information. The value of each of these parameters indicates the intensity of the

corresponding color at that pixel. The various possible combinations of the red, green,

and blue parameters allow different pixels to represent a wide range of colors and

intensities. When the color and intensity of each pixel is displayed or printed in this two-

dimensional image space, the image 22 is depicted", and at [0020] with "Alternatively,

and with reference to FIG. 4, the image data pixels may also be logically mapped to a

number of alternative three-dimensional color spaces known to those skilled in the art,

such as HSL color space 50. HSL color space 8 may be represented as a cone having

a central axis 52 representing lightness (L), a radial axis 54 extending out from the

central axis 52 representing saturation (S), and an angular component 56 representing

the hue (H). The particular shade of color of a pixel, such as pixels 51, is represented

as a position on a plane of the cone orthogonal to the lightness axis 52, while the

lightness or darkness of a pixel is represented by the location on the lightness axis 52 of

the plane", "arranging the pixels of the unframed image 22 in a three-dimensional color

space is beneficial for automatically generating a visually pleasing frame for the image

22. While the HSL color space is depicted here for simplicity of understanding, the HSL

color space is logarithmic with respect to the characteristics of human visual perception,

and therefore it should be understood that the preferred color space for the present invention is CIE L*a*b* space which has a linear relationship to human visual perception", and at [0035] with "Some embodiments also allow the user to specify the number and width of the borders, the desired size of the framed image 26, and/or a scaled size for the representation 22' of the unframed image. After the mapping relationship has been modified, the determining 106 of frame attributes is performed again", "the user has the ability to modify or override the attributes of the frame 26", and at [0036] with "Returning now to the image processing apparatus 10 in order to consider the image analyzer 20 in further detail, and with reference to FIGS. 1 and 2, the data set for the unframed image may be supplied from image sources which include but are not limited to a mass storage device 12a, a network source 12b, a digital camera 12c, an optical scanner 12d, or the optical scanner module of a multifunction printer 12e. The image analyzer 20 further includes a component identifier 28 which processes the data set as has been previously described so as to identify one or more individual image components. The analyzer 20 also includes a component characterizer 30 which receives the image components from the component identifier 28 and determines at least one component characteristic for certain ones of the individual image components; an image characterizer 34 which is communicatively coupled to the component characterizer 30 for determining at least one image characteristic from the at least one component characteristic as has been previously described; and an image categorizer 36 which is communicatively coupled to the image characterizer 34 for automatically defining the at least one frame attribute from the at least one image characteristic, as

has also been previously described in detail. The image processing apparatus 10 also

preferably includes a memory 44 accessible by the image categorizer 36, the image

categorizer 36 automatically defining the at least one frame attribute in accordance with

at least one framing scheme parameter stored in the memory 44. The preferred

embodiment of the memory is preferably writeable, and the apparatus 10 preferably

also has a user interface 38 communicatively coupled to the memory 44 for modifying

the at least one framing scheme parameter", and at [0038] with "The apparatus 10 can

send the data set it generates for the framed image to imaging devices that include but

are not limited to a printer 14a, a display or monitor 14b, a network destination 14c, a

mass storage device 14d, or a multifunction printer 14e".

It would have been obvious to one of ordinary skill in the art at the time of the

instant invention to use the features of Ii with the teachings of Jia et al. because

automatically generating a visually attractive frame around a digital image by analyzing

the contents of the digital image reduces confusion and time expended by a person to

manually mat and frame the digital image.

Claim 14 further requires retrieving an edge asset, the edge asset being

indicative of an edge segment of the frame. Ii teaches this at [0082] as in FIG. 2B,

graphic piece 218; Ii teaches the claimed generating edge frame blocks using the edge

asset, the edge frame blocks being sufficient to fill between two of the corner blocks

along a side of the image at [0037] with the teaching of "The border area 216 of FIG. 2B

includes four corner pieces 220 that are comprised of the same caricature of a bird.

The corner pieces 220 are placed at each corner of the image 214 by the processor

102-2 executing program instructions that identify the location and orientation for each

copied graphic pieces 218 & 220 according to border configuration file" and at [0082]

with "in FIG. 2B, four graphic pieces 218 and two corner graphic pieces 220 are

uniformly spaced across the width of the input image 214".

Claim 15 further requires generating other edge frame blocks by rotating the

edge asset, the other edge frame blocks being sufficient to fill between two of the corner

blocks along another side of the image. Ii teaches this at [0037] with "The border area

216 of FIG. 2B includes four corner pieces 220 that are comprised of the same

caricature of a bird. The corner pieces 220 are placed at each corner of the image 214

by the processor 102-2 executing program instructions that identify the location and

orientation for each copied graphic pieces 218 & 220 according to border configuration

file", and at [0082] with "in FIG. 2B, four graphic pieces 218 and two corner graphic

pieces 220 are uniformly spaced across the width of the input image 214".

Claim 16 further requires generating edge frame blocks using the corner asset,

the edge frame blocks being sufficient to fill between two of the corner blocks along a

side of the image. Ii teaches this at Figure 2A.

Claim 17 is similar to claim 1 and is rejected under rationale previously presented

for similar respective features of claim 1.

Claim 18 is similar to the combination of claims 13 and 14, claim 13 being

independent, with claim 14 depending from claim 13; claim 18 is rejected under

rationale previously presented for similar respective features of the combination of

claims 13 and 14.

Claim 19 is similar to claim 1 but further requires acquiring an image, the image

having a size and a resolution. Jia et al. teaches this at Figure 2, item 22; selecting a

frame style, which is taught at Jia et al. at Figure 2 item 32; retrieving a frame rule and

one or more frame assets that are associated with the frame style, which is taught at Jia

et al. at Figure 2, Frame Attributes from item 36; and publishing the framed image,

which Jia et al. teaches at Figure 1, items 14a-14e.

Claim 20 further requires the acquiring step includes taking the image with a

digital camera module. Jia et al. teaches this at Figure 1, item 12c.

Claim 21 further requires the acquiring step includes downloading the image over

a wireless network. Jia et al. teaches this at Figure 1, item 12b.

Claim 23 is similar to claim 8 and is rejected under rationale previously presented

for similar respective features of claim 8.

Claim 24 is similar to claim 3 and is rejected under rationale previously presented for similar respective features of claim 3.

Claim 25 is similar to claim 4 and is rejected under rationale previously presented for similar respective features of claim 4.

Claim 26 is similar to claim 7 and is rejected under rationale previously presented for similar respective features of claim 7.

Claim 27 further requires the frame is on the image, and deforms image pixels. Ii teaches this at [0032] with "In FIG. 2A, a graphic piece 212 is tiled into the border area 204 by blending pixels of the graphic piece 212 into the pixels of the input image 202".

Claim 28 further requires at least one of the frame assets is retrieved from a local memory. Jia et al. teaches this at Figure 1, item 44.

Claim 29 further requires at least one of the frame assets is retrieved from a remote server. Jia et al. teaches this at Figure 1 item 12b.

Claim 30 further requires at least one of the frame assets is retrieved from a remote server using a wireless network. Jia et al. teaches this at Figure 1 item 12b.

Claim 31 further requires the publishing step includes transmitting the framed

image using a wireless network. Jia et al. teaches this at Figure 1 item 14c.

Claim 32 is similar to claim 3 and is rejected under rationale previously presented

for similar respective features of claim 3.

Claim 33 further requires the placing step includes using an image processor to

analyze the image and placing at least one of the frame blocks responsive to the

analysis. Jia et al. teaches this at [0022] with "Considering now in further detail the

analyzing 104 of the data set for the unframed image 22, and with reference to FIGS. 2,

3, 4, and 6, the analysis is dependent on whether the data set is analyzed in image

space or in color space. If it is to be analyzed in image space 6 ("Image Space" branch

of 116), then at 118 the pixels are mapped to the rows 7 and columns 8 of the image

space 6. At 120, at least one spatial region of pixels, such as those mapped to regions

9a-9f, of the image space 6 are identified as image components. The image

components may be located in fixed positions within the image space 6. Some

embodiments may use a single image component, which may be, for example, the

entire image space 6, a larger central portion 9f, or a smaller central portion 9c. Other

embodiments may have a number of image components such as, for example, the five

image components 9a-9e. The image components, rather than being in fixed positions

in image space, may be dynamically determined based on the image being analyzed".

Claim 34 further requires the image is a picture. Jia et al. teaches this at Figure 2 item 22.

4.   Claims 22, 35, and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Li in view of Jia et al. as applied to claim 19 above, and further in view of Oberg.

Claim 22 further requires the selecting step includes previewing a thumbnail of the frame. Jia et al. teaches "At 110, it is determined whether or not the data set for the framed image 24 should be modified; usually this includes providing a visual preview of the framed image 26 to a user" at [0021], however, a thumbnail is not explicitly taught. Oberg teaches thumbnails at column 7 lines 52-58 with "The image processing software in the system is also capable of presenting multiple composite images for display simultaneously, which may make it easier for the user to compare various configurations. FIG. 4 illustrates this capability by showing a number of composite images 80 with different locations, orientations, and shapes of openings in the matting material", and at figure 4.

It would have been obvious to one of ordinary skill in the art at the time of the instant invention to use the features of Ii and Jia et al. with the teachings of Oberg because it would make it easier for a user to compare various configurations and allow the user to interactively experiment with various combinations and see the composite image updated in a very short time.

Claim 35 further requires the image is a sequence forming an animation. Oberg teaches this at column 3 lines 12-17 with "Another object is to produce a video display of an object to be framed which will enable a customer to visualize various color schemes and physical dimensions of the framing and matting material items so that a decision can be made by the customer as to the most desirable arrangement of framing and matting material".

It would have been obvious to one of ordinary skill in the art at the time of the instant invention to use the features of li and Jia et al. with the teachings of Oberg because it would make it easier for a user to compare various configurations and allow the user to interactively experiment with various combinations and see the composite image updated in a very short time.

Claim 36 further requires the image is a is a sequence forming a movie. Oberg teaches this at column 3 lines 12-17 with "Another object is to produce a video display of an object to be framed which will enable a customer to visualize various color schemes and physical dimensions of the framing and matting material items so that a decision can be made by the customer as to the most desirable arrangement of framing and matting material".

It would have been obvious to one of ordinary skill in the art at the time of the instant invention to use the features of li and Jia et al. with the teachings of Oberg because it would make it easier for a user to compare various configurations and allow

the user to interactively experiment with various combinations and see the composite

image updated in a very short time.

RESPONSE TO APPLICANT'S ARGUMENTS:

Applicant's arguments filed March 15, 2006 have been fully considered but they

are not deemed to be persuasive.

Applicant argues that the feature of "on a mobile wireless communication" in the

preamble must be considered as structural elements which Examiner does not agree.

The claim preamble must be read in the context of the entire claim. The

determination of whether preamble recitations are structural limitations or mere

statements of purpose or use "can be resolved only on review of the entirety of the

[record] to gain an understanding of what the inventors actually invented and intended

to encompass by the claim." Corning Glass Works, 868 F.2d at 1257, 9 USPQ2d at

1966.

In claim 1, the claimed invention is "a method of framing an image" with all the

steps in the body of the claim fully and intrinsically set forth all of the limitations of the

claimed "framing an image" with a clear intended use "on a mobile wireless

communication". If the body of a claim fully and intrinsically sets forth all of the

limitations of the claimed invention, and the preamble merely states, for example, the

purpose or intended use of the invention, rather than any distinct definition of any of the

claimed invention's limitations, then the preamble is not considered a limitation and is of

no significance to claim construction. Pitney Bowes, Inc. v. Hewlett-Packard Co., 182

F.3d 1298, 1305, 51 USPQ2d 1161, 1165 (Fed. Cir. 1999). See also Rowe v. Dror, 112

F.3d 473, 478, 42 USPQ2d 1550, 1553 (Fed. Cir. 1997) ("where a patentee defines a

structurally complete invention in the claim body and uses the preamble only to state a

purpose or intended use for the invention, the preamble is not a claim limitation").

Applicant also argues that the cited references do not teach " the frame having a

scalable dimension independent from the size and resolution of the image" which is not

correct. Jia teaches, in paragraph 0035, "Some embodiments also allow the user to

specify the number and width of the borders, the desired size of the framed image 26,

and/or a scaled size for the representation 22 of the unframed image." It means that

Jia's frame having a scalable dimension in the case of the representation 22 of the

unframed image be kept unchanged and the desired size of the frame image 26 vary or

the representation 22 of the unframed image be kept unchanged and the width of the

borders vary. Furthermore, since the size of the representation 22 of the unframe

image is unchanged, Jia's scalable frame varies independent from the size and

resolution of the image.

Accordingly, the claimed invention as represented in the claims does not

represent a patentable distinction over the art of record.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time

policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Phu K. Nguyen whose telephone number is (571) 272

7645. The examiner can normally be reached on M-F 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael Razavi can be reached on (571) 272 7664. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Phu K. Nguyen
May 22, 2006

PHU K. NGUYEN
PRIMARY EXAMINER
GROUP 2300